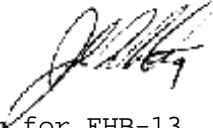




**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL WEATHER SERVICE  
Silver Spring, Md. 20910

MEMORANDUM FOR: All NWS Regional Headquarters, Regional  
Maintenance Specialists, Electronic Systems  
Analysts, and Electronics Technicians [Engineering  
Handbook (EHB)-13, Series II Distribution]

FROM: W/OPS1 - John McNulty 

SUBJECT: Transmittal Memorandum for EHB-13, Series II

1. Material Transmitted:

Advanced Weather Interactive Processing System (AWIPS), Section  
3.1, AWIPS Software Installation Instruction Note 19, AWIPS  
Build 5.1.1 Installation Instructions

2. Summary:

AWIPS Software Installation Instruction Note 19 provides  
installation instructions for Build 5.1.1.

3. Effect on Other Instructions:

None.



## AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 19

(for Electronic Systems Analysts)

W/OPS12: FJZ

- SUBJECT** : Build 5.1.1 Installation Instructions
- PURPOSE** : To issue Build 5.1.1 software upgrade installation instructions
- AFFECTED SITES** : All National Weather Service Offices must install Build 5.1.1. As a prerequisite, at least R5.0 must be installed. Neither R5.03 or R5.04 needs to be installed before the R5.1.1 upgrade.
- AUTHORIZATION** : The authority for this modification is NWS Request for Change 612.
- VERIFICATION STATEMENT** : The installation procedures were tested and verified at Silver Spring, MD (NMTW and NMTR), Southern Region Headquarters (EHU), Western Region Headquarters (VHW), Central Region Headquarters (BCQ), Eastern Region Headquarters (VUY), Pacific Region Headquarters (PBP), RFC Portland, OR (PTR), WFO Bismark, ND (BIS), WFO Pendleton, OR (PDT), WFO Pittsburgh, PA (PBZ), and WFO Boulder, CO (BOU).
- TIME REQUIRED** : WFO installation time Part 1-9 (see Attachment B instructions) is up to 9 hours, with 3 to 4 hours ingest down time. RFC installation time is up to 8 ½ hours, with 3 to 4 hours ingest down time. In order to save time on the day of the upgrade, sites should install Part 1 about 2 “install days” (Monday through Thursday) before the rest of the upgrade. Since this takes 2 ½ hours, the rest of the upgrade (Part 2-9) can be completed in approximately 6 to 7 hours.
- EQUIPMENT AFFECTED** : AWIPS
- SECURITY LEVEL** : root
- EFFECT ON OTHER: INSTRUCTIONS** : None.
- TECHNICAL SUPPORT** : For questions or problems regarding the upgrade, call the NCF at (301) 713-9344.

## GENERAL:

The Build 5.1.1 installation upgrade kit includes: installation instructions, 3 CDs for WFOs, 2 CDs for RFCs, release notes, and script log output (with error information). The length of ingest downtime requires sites to perform service backup. R5.1.1 localization/customization problems will be similar to those experienced in the R5.0 upgrade.

**NOTE:** 1. R5.0 **must** be installed prior to the Build 5.1.1 upgrade procedure.

Notice:

- A. CONUS WFO sites without R5.0 IFPS installed, will not be able to install Part 8, R5.1.1 IFPS. Such sites, however, will be able to install the rest of R5.1.1. After the upgrade of R5.1.1, these CONUS sites upon receiving their R5.0 IFPS training and software, can install R5.0 IFPS followed by R5.1.1 IFPS (Part 8).
  - B. OCONUS WFO sites shall install all R5.1.1 software, including Part 8, R5.1.1 IFPS.
2. Sites **must** coordinate the Build 5.1.1 installation with their regional or NCEP Center AWIPS focal point. COMT, the Training Center, systems at WSH, and the OSF should schedule their upgrade with Frank Lucadamo at WSH.
- Parts 2 through 9 shall be scheduled one day, with Part 1 scheduled approximately 2 install days (Monday-Thursday) prior.
3. Adhere to the guidelines outlined below.
4. AWIPS regional focal points **must** coordinate the Build 5.1.1 installation at [www.visto.com](http://www.visto.com).

AWIPS remote displays (ARD) cannot be logged into AWIPS during the install; sites must coordinate with their CWSUs before initiating the Build 5.1.1 upgrade. As noted above, the Build 5.1.1 upgrade must be coordinated with the appropriate personnel. Avoid the following scenarios:

- Local sites and their backups **shall not** perform simultaneous software upgrades.
- Weather wire uplink sites and their backups **shall not** perform simultaneous software upgrades.

General installation guidelines:

- NCF/PRC upgrade support is available from 7AM and 7PM EDT, Monday through Thursday.

On Thursdays, OCONUS sites can receive upgrade assistance outside of the set support hours. These OCONUS sites, however, must pre-coordinate this through their regional focal point. If the NCF/PRC are not advised ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.

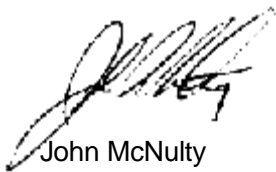
- Five sites shall be upgraded per day (Parts 2-9); scheduled in the AWIPS time-frame noted above.
- Again, please note: Part 1 shall be completed approximately 2 install days prior to the rest of the upgrade. Therefore, if a site is scheduled to complete Parts 2 through 9 on Monday, the site should schedule Part 1 the previous Wednesday or Thursday. If a site must complete Parts 1 through 9 on the same day, the NCF shall be advised of this on the day of upgrade.
- All Build 5.1.1 upgrades shall be complete, if possible, by the end of October.

Sites are encouraged to review the instructions before performing the upgrade. It is important to begin with Part 0, the Pre-installation Requirements, several days to a week before the rest of the upgrade (Parts 2 through 9) are initiated. If any of these instructions require further clarification, call NCF support.

## REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Upgrade AWIPS Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgraded AWIPS System Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19
17a	Mod. No.	S19



John McNulty  
Chief, Maintenance, Logistics, and Acquisition Division

Attachment A - WS Form A-26 Sample

# ATTACHMENT A

WS FORM A -26 (4/94)		WS FORM A -26 (4/94)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number <b>G 49978</b>		
<b>ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD</b>												
<b>General Information</b>		1. Open Date <b>7 / 25 / 01</b>		Time <b>0900</b>		2. Initials <b>JMM</b>		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date <b>7 / 25 / 01</b>		
										Time <b>1900</b>		
5. Description <b>Upgrade AWIPS Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19</b>												
<b>Equipment Information</b>		6. Station ID <b>FFC</b>		7. Equipment Code <b>AWIPS</b>		8. Serial Number <b>001</b>		9. TM <b>M</b>		10. AT <b>M</b>		
										11. How Mal. <b>999</b>		
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>		b. Logistics Delay <input type="text"/>		Partly Operational		c. All Other <input type="text"/>		d. Logistics Delay <input type="text"/>		
										Not Operational		
										e. All Other <input type="text"/>		
<b>13. Parts Failure Information</b>										<b>14. Work Load Information</b>		
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type	Staff Hrs.			
1								a. Routine				
2								b. Non-routine				
3								c. Travel				
4								d. Misc.	<b>10:00</b>			
5								e. Overtime				
<b>Miscellaneous Information</b>		15. Maintenance Comments <b>Upgraded AWIPS System Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19</b>									16. Initials <b>JMM</b>	
17. SPECIAL PURPOSE REPORTING		a. Mod. No. <b>S19</b>		b. Mod./Act./Deact.Date <b>7/25/01</b>		c.		d.		e.		
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)		Serial Number (Old Part)		Serial Number (New Part)				

EHB-13, Ser II  
Issuance 01-18  
07-26-01